

# **MIX DESIGN & PROPORTIONING** **QC/QA SUPERSTRUCTURE CONCRETE**

Mix Identification No. & Intended Use: \_\_\_\_\_

<b>Initial Parameters for yd<sup>3</sup> Concrete</b> (see Note 1)	
Target Cement Content, lbs	
Target Pozzolan Content, lbs	
Target Silica Fume Content, lbs	
Target Water / Cementitious Ratio, by wt.	
Target Cement / Pozzolan Ratio, by wt.	
Target % Silica Fume	
100 FA / FA+CA, Target, % by volume	
FA Bulk Sp. Gr. (SSD)	
FA Absorption, %	
CA Bulk Sp. Gr. (SSD) per procedure 8.2	
CA Absorption, % per procedure 8.2	

CA Bulk Sp. Gr. (SSD) & Absorption per Procedure 8.1 AASHTO T 85 ____ · _____ , ____ · _____ %
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Material	Size, Type or Class	Source	Design Batch Weights lbs	Specific Gravity	Absolute Volume ft <sup>3</sup>
Cement				3.150	
Pozzolan					
Silica Fume					
FA					
CA (see Note 2)					
Water				1.000	
Air	entrained	see table below	0	-NA-	1.76
<b>Σ</b>	-NA-	-NA-		-NA-	27.00

Admixture Name	Admixture Type	Source	Range of Dosage Rate fl oz/cwt
	AEA		

Note 1 – Aggregate Batch Weights For Mix Design shall be saturated surface dry (SSD). Aggregate Bulk Sp. Gr. (SSD) & Absorption will be checked against source records for INDOT concurrence. Call District Geologist for assistance.

Note2 – Is Class AP coarse aggregate require? [ ☐ ] yes [ ☐ ] no

**CMD Linear Equation: Unit Weight = \_\_\_\_\_ (Air Content) + \_\_\_\_\_**

**Threshold Equation At Maximum Allowable Water/Cementitious Ratio: UW = \_\_\_\_\_ (Air) + \_\_\_\_\_  
(see attached worksheets)**

PE/PS Approval: \_\_\_\_\_